## Reichhold Chemicals, Inc.

Treated Fiber Products 2340 Taylor Way P.O. Box 1482 Tacoma, Washington 98401

# REICHHOLD

January 7, 1993

SEA21487.LT

Chief, Waste Management Branch U.S. Environmental Protection Agency, Region X 1200 Sixth Avenue Seattle, Washington 98101

Gentlemen:

Subject:

Offsite Intermediate Aquifer Extraction System

Reichhold Chemicals, Inc., Tacoma, Washington

3320 Lincoln Avenue Tacoma, Washington

In accordance with Section I.N.(1) of the RCRA Permit (WAD 009 252 891), this letter certifies that the Offsite Intermediate Aquifer Extraction System has been constructed at Reichhold Chemicals, Inc., Tacoma, Washington, in compliance with the Permit. The Offsite Intermediate Aquifer Extraction System was originally described in the Reichhold technical memorandum titled "Technical Memorandum, Reichhold Chemicals, Inc., Tacoma, Washington, Description and Design Assumptions for Expedited Action, Offsite Intermediate Aquifer Extraction Wells, and Sanitary Sewer," dated December 29, 1988.

The Offsite Intermediate Aquifer Extraction System was originally included in RCI's Design Package 2. That package was executed in 1988 without the offsite extraction wells phase due to delays in easement negotiations with the Puyallup Indian Tribe and the Port of Tacoma.

Previous letters to EPA discussed minor revisions to the original 1988 design. The letter dated May 29, 1992, discussed typical changes to the original design. That letter was attached to Design Package 10, Offsite Extraction Wells, which was submitted for EPA review on that date. The letter dated August 5, 1992, summarized additional measures RCI planned on implementing in the design, construction, and operation of the system to address EPA's concerns resulting from their review of Design Package 10.

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The Offsite Intermediate Aquifer Extraction System was constructed with only minor changes (e.g., shifting of the pipe alignment a few feet within the easement, railroad undercrossing configuration, wellhead piping configuration, etc.). As required by Section II.A.(3) of the Permit, enclosed are the final record drawings for the Offsite Intermediate Aquifer Extraction System with additions/deletions/changes for the original construction noted. The noted additions/deletions/changes on the record drawings have cloud symbols drawn around them. In the case of deletions the cloud is empty. For a summary of what was deleted without having to reference the construction drawings, see Table 1. The rationale for these minor deviations are based on normal construction methods and materials availability.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John Oldham

Tacoma Site Manager Riechhold Chemicals, Inc.

January 6, 1993

Lauri J. Gorton, P.E.

CH2M HILL Northwest, Inc.

January 6, 1993

Attachment bp/seaE8/044.51

cc: Dave Bartus/EPA

Executive Director/Port of Tacoma

Puyallup Tribe of Indians

Table 1 Summary of Deletions		
Sheet	Detail	Deletion
4	Plan-Center	<ul><li>Clean outs</li><li>(2) Concrete encasement notes</li></ul>
4	Profile-Center	<ul> <li>Existing waterline</li> <li>Concrete encasements</li> <li>Reference to Alexander Avenue pavement restoration</li> </ul>
5	3	Floor sleeve
5	4	Rubber sleeve
5	A	<ul> <li>Floor sleeve</li> <li>½ premolded joint filler</li> </ul>
6	2	Notes and references to a precast railroad undercrossing
11	3	Grounding rod and strap

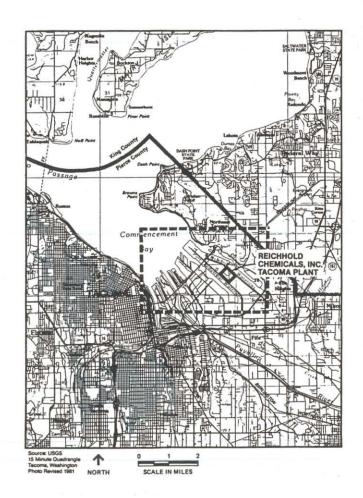
# REICHHOLD CHEMICALS, INC. TACOMA, WASHINGTON

WA 289

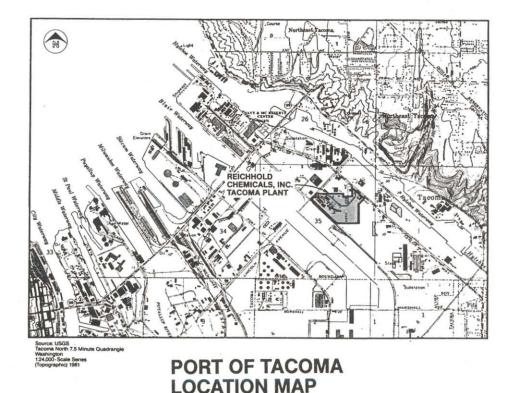
**INTERIM CORRECTIVE ACTION** PACKAGE NO. 10

# **EXTRACTION WELLS**

# DRAWING INDEX



TITLE AND VICINITY MAP LEGEND - MECHANICAL, CIVIL GENERAL SITE PLAN **ELECTRICAL ONE LINE AND ELEMENTARY DIAGRAM ELEMENTARY DIAGRAM ELEMENTARY DIAGRAM ELECTRICAL DETAILS** INSTRUMENTATION AND CONTROL LEGEND POWER DISTRIBUTION IN FP-100 AND FP-4T1 **POWER DISTRIBUTION FP-EW 4-10** FIELD PANEL FP-EW-10 PANEL ELEVATION **WELL CONTROL EW 4** WELL CONTROL EW 10 \* INFORMATION REGARDING CORRECTIONS FOR RECORD DRAWINGS PROVIDED



# TACOMA VICINITY MAP



J. BROWN G. VEDERA

REUSE OF DOCUMENTS

NOT ONE INCH ON

TACOMA, WASHINGTON INTERIM CORRECTIVE ACTION

PACKAGE NO. 10 OFFSITE EXTRACTION WELLS TITLE AND VICINITY MAP

DATE MAY 1992

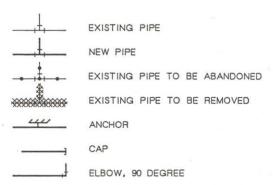
**RECORD DRAWINGS** 

# NOTES:

# GENERAL PIPING NOTES

- 1. LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION
- SIZE OF FITTINGS SHOWN ON PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
- 3. LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. FINAL SUPPORT REQUIREMENTS SHALL BE DETERMINED IN THE FIELD AND REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION. MAXIMUM SPACING SHALL
- 4. NOT USED.
- 5. NUMBER AND LOCATION OF UNIONS SHOWN ON PLANS IS ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
- 6. SYMBOLS, LEGENDS, AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE PLANS, WHEREVER APPLICABLE. NOT ALL OF THE VARIOUS PIPING COMPONENTS ARE NECESSARILY USED IN THE PROJECT.

# PIPING SYMBOLS



ELBOW UP ELBOW DOWN CROSS

TEE

TEE UP TEE DOWN ELBOW, 45 DEGREE

LATERAL UP LATERAL DOWN

CONCENTRIC REDUCER ECCENTRIC REDUCER

UNION

LATERAL

# VALVE SYMBOLS

——── GATE BUTTERFLY GLOBE BALL PLUG OR COCK NEEDLE SWING CHECK BALL CHECK

# UTILITY AND SITE LEGEND

DPS-

12" CMP

--x-x-x-x-

 $\phi \rightarrow$ 

# **EXISTING**

FENCE LINE

PUMP STATION

--- 8"S-O---SANITARY SEWER WITH MANHOLE ---6"PS ---PRESSURE SEWER STORM SEWER WITH CATCH BASIN AND MANHOLE —12"IRR—— R"W—— IRRIGATION PIPELINE WATER PIPELINE WITH FIRE HYDRANT AND VALVE ----2"G-GAS PIPELINE -PC-UNDERGROUND POWER CABLE UNDERGROUND TELEPHONE CABLE ---TV-UNDERGROUND TELEVISION CABLE

CULVERT WITH SIZE AND TYPE

UTILITY POLE WITH GUY ANCHOR

# NEW

MANHOLE DESIGNATION GRAVITY SEWER WITH MANHOLE PRESSURE SEWER (DASHED PLAN ONLY) SURFACE RESTORATION ZONE -(D)-BACKFILL CLASSIFICATION SIZE AND SLOPE OF PIPE (8" PIPE AT 0.0040 FT/FT) 8"00.0040 3'-0" TRENCH WIDTH RESTRICTION

> ELECTRICAL CABLE CONTROL CABLE

PUMP STATION

# GENERAL

TL 1500 TAX LOT NUMBER ---EL---EASEMENT LINE 20'P WIDTH OF PERMANENT EASEMENT 30T WIDTH OF TEMPORARY EASEMENT B1-4 EASEMENT NUMBER DITCH SHOWING DIRECTION OF FLOW

×1000 **EXISTING GRADE** 

~ 1000 -**NEW CONTOUR** Δ MONITORING WELL

# SECTION AND DETAIL DESIGNATION

POINT AT WHICH SECTION OR DETAIL IS TAKEN

POINT AT WHICH SECTION OR DETAIL IS SHOWN

LETTER INDICATES LETTER INDICATES **DESIGNATION OF** DESIGNATION OF INDICATES DRAWING WHERE SECTION IS SHOWN

INDICATES DRAWING (S) WHERE SECTION IS TAKEN

NUMBER INDICATES DESIGNATION OF DETAIL INDICATES DRAWING WHERE DETAIL IS SHOWN

NUMBER INDICATES DESIGNATION OF DETAIL

INDICATES DRAWING (S) WHERE DETAIL IS TAKEN

### NOTES:

 SYMBOL, LEGEND, AND USE IDENTIFICATION WHICH ARE SHOWN ON THIS DRAWING ARE FOLLOWED THROUGHOUT THE PLANS WHENEVER APPLICABLE. ALL OF THE VARIOUS SYMBOLS, LEGENDS AND USE IDENTIFICATIONS ARE NOT NECESSARILY UTILIZED IN THE PROJECT.

RIGHT-OF-WAY AND/ OR PROPERTY LINE

CREEK OR RIVER SHOWING DIRECTION OF FLOW

FINISH GRADE ⊗1000 **1000** -**EXISTING CONTOUR** 

> 0 **EXTRACTION WELL**

# **RECORD DRAWINGS** Revisions Drawn by C.S. JOHNSON Date 12-24-92

THESE RECORD DRAWINGS HAVE BEEN PREPARED. IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION. TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.





LARK COSBY CLARK COSBY G. VEDERA L. GORTON

NO. DATE

12-2492 RECORD DRAWING

REVISION

BY APVD CH2M HILL

THIS DOCUMENT. AND THE IDEAS AND DESIGNS INCOR-PORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL.

**REUSE OF DOCUMENTS** 

BAR IS ONE INCH ON ORIGINAL DRAWING. F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDING

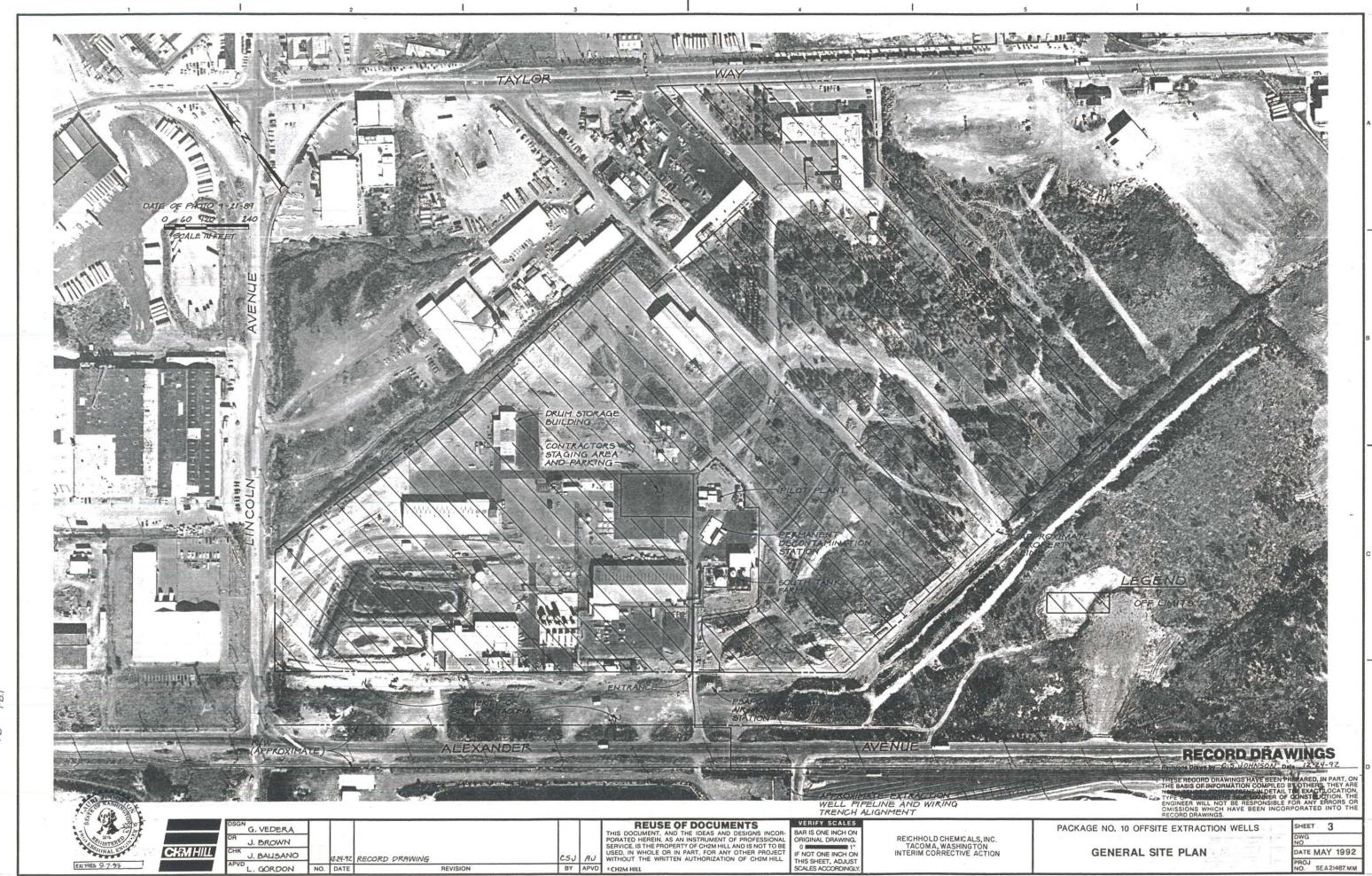
VERIFY SCALES

REICHHOLD CHEMICALS, INC. TACOMA, WASHINGTON INTERIM CORRECTIVE ACTION PACKAGE NO. 10 OFFSITE EXTRACTION WELLS

LEGEND MECHANICAL, CIVIL

SHEET 2 DATE MAY 1992

SEA21487.LT



PB PB

